

WHAT IS CLAIMED IS:

1. A method for treating and/or ameliorating the symptoms of a cerebral ischemic condition in a mammalian subject, comprising administering to the subject an effective amount of a non-alpha tocopherol enriched tocopherol composition, and by
5 said administering, reducing neuronal damage related to said cerebral ischemic condition.

2. The method of claim 1 wherein the non-alpha tocopherol enriched tocopherol composition is a gamma-tocopherol enriched tocopherol composition.

10 3. The method of claim 1 wherein the non-alpha tocopherol enriched tocopherol composition is a gamma-tocopherol metabolite enriched composition.

4. The method of Claim 3, wherein said gamma-tocopherol metabolite is 6-hydroxy-2,7,8-trimethylchroman-2-propanoic acid (LLU- α).

15 5. The method of claim 1, wherein the cerebral ischemic condition is secondary to an occlusion of the cerebral vasculature.

6. The method of claim 5, wherein the occlusion is due to a thromboembolism.

20 7. The method of claim 2, wherein said gamma-tocopherol enriched tocopherol composition comprises at least 60% gamma-tocopherol.

8. The method of claim 2, wherein said gamma-tocopherol enriched tocopherol composition comprises at least 65% gamma-tocopherol.

9. The method of claim 2, wherein said gamma-tocopherol enriched tocopherol composition comprises at least 70% gamma-tocopherol.

25 10. The method of claim 2, wherein said gamma-tocopherol enriched tocopherol composition comprises at least 75% gamma-tocopherol.

11. The method of Claim 2, wherein said gamma-tocopherol enriched tocopherol composition comprises at least 50% to 100% gamma-tocopherol.

30 12. The method of Claim 2, wherein said gamma-tocopherol enriched tocopherol composition comprises at least 55% to 95% gamma-tocopherol.

13. The method of Claim 2 wherein said gamma-tocopherol enriched tocopherol composition comprises at least 95% gamma-tocopherol.

14. The method of Claim 3, wherein said gamma-tocopherol metabolite enriched composition comprises 5% to 95% gamma tocopherol metabolite.

5 15. The method of Claim 1, wherein said composition is a nutritional composition.

16. The method of Claim 1, wherein said composition is a pharmaceutical composition.

17. The method of Claim 1, wherein said composition is administered orally.

10 18. The method of Claim 1, wherein said composition is administered parenterally.

19. The method of Claim 1, wherein said composition comprises gamma-tocopherol at 20mg/kg body weight of said mammalian subject.